BiAdmin Program

This document describes the installation and operation of the BiAdmin Configuration & Management program.

Requirements

This program requires:

- Windows 95 or Windows 98
- Windows NT 3.51, Windows NT 4.0

Additional Recommendations:

- Screen resolution of 800 * 600 or greater.
- If using Novell NetWare, installation of Novell's *Client 32 for Windows* is strongly recommended. This will greatly enhance the ability to BiAdmin to work with NetWare servers.

Installation

BiAdmin can be installed by running the setup.exe program in the directory ioprint\utils\biadmin\disk1 on the Chase Research CD-ROM.

Select *Install BiAdmin* from the options available, and follow the on-screen prompts to complete the installation.

Main Screen

Start the program by using the icon created by the setup program.

When run, the program searches the network for all active IOPRINT+ Print Servers, then lists them on screen, as shown by the example screen below.

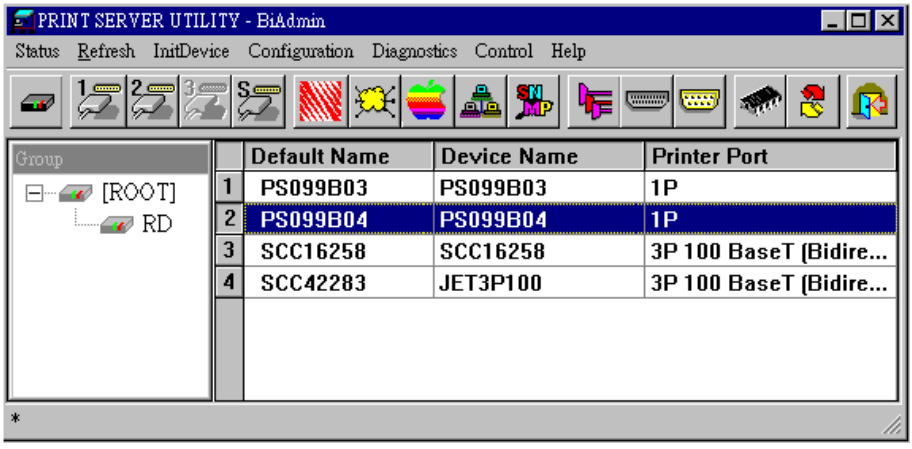


Figure 1: BiAdmin Main Screen

Groups

On the left side of the screen is a column for *Groups*. Each IOPRINT+ Print Server may be placed in a group, using the *Configuration-System Configuration-Groups* menu option.

- If a group is selected, only IOPRINT+ Print Servers in that group will be listed on the right side of the screen.
- By default, all IOPRINT+ Print Servers will appear in the [ROOT] group.
- A IOPRINT+ Print Server can only be a member of one (1) group, and will always be a member of a group
- Use the *Configuration-System Configuration-Groups* menu option to select a group for the current IOPRINT+ Print Server.
- To create a new Group and add the current IOPRINT+ Print Server to it, just enter a group name in the dialog. (See example screen below)

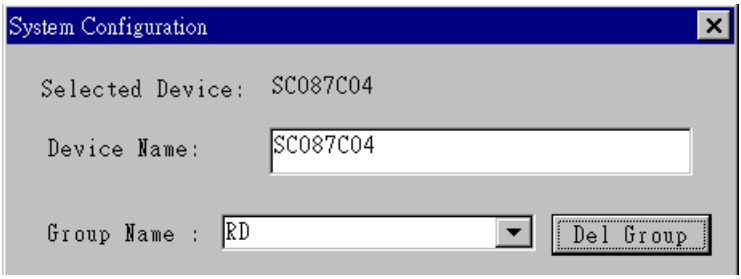


Figure 2: System Configuration Groups

Device List

On the right side of the screen is a list of all IOPRINT+ Print Servers found on the network. For each device, the following data is shown:

- **Default Name**. The *Default Name* is shown on a sticker on the base of the device.
- **Device Name**. If you have not changed the name, this will be the same as the *Default Name*.
- **Port information**. The number and type of ports is shown in the right column.

If the desired device is not listed, try the following:

- Check that the device is installed and ON, then *Refresh* the list.
- Use the *InitDevice Find* menu option to search for the IOPRINT+ Print Server. You need to know the *Default name* of the IOPRINT+ Print Server. The *Default name* is shown on a sticker on the base of the device.
- If the IOPRINT+ Print Server is on another LAN segment, use the *InitDevice Attach Remote* menu option to locate and display the IOPRINT+ Print Server.
- For networks using ONLY TCP/IP, IOPRINT+ Print Servers without an IP Address will not appear. Use the *InitDevice Set IP Address* menu option to assign an IP Address, then *Refresh* the list. You need to know the *Default Name*

of the unlisted device in order to assign an IP Address. The *Default name* is shown on a sticker on the base of the device.

ICONS

Once a IOPRINT+ Print Server has been selected, the Icons become active.

Note that the icons provide status information as well as access to the selected IOPRINT+ Print Server settings. If an icon is grayed out, that option is or protocol is unavailable.

The icons are arranged in 3 groups:

- **Status** (left)

Use these to check the status of the selected IOPRINT+ Print Server, and the printer ports on the IOPRINT+ Print Server.

- **Configuration** (middle)

Use these to configure the selected IOPRINT+ Print Server.

- **Actions** (right)

These allow you to upgrade the firmware, refresh the list of IOPRINT+ Print Servers, view help for each of the other icons, or exit the program.

The following sections provide full details of each icon.

Status Icons

The following icons are located on the left side of the screen.

Device Information

Menu equivalent: ***Status - Device Information***

This option allows you to view all of the device settings in a scrollable list. The data can not be changed.

Port Status

Menu equivalent: ***Status - Port Status***

There are 4 icons - one for each parallel port, and one for the serial port. Non-existent ports are grayed out. Selecting an icon will result in a screen like the following example.

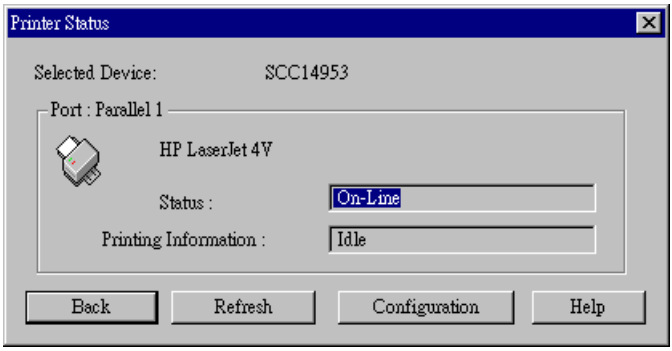
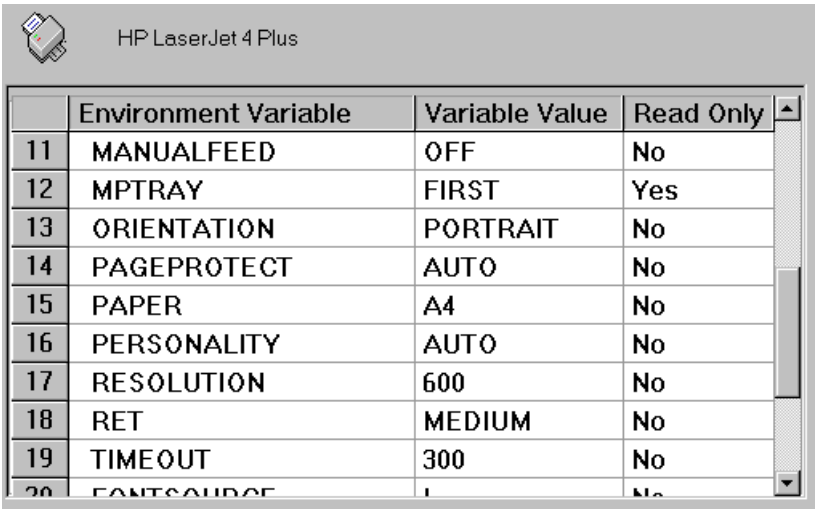


Figure 3: Printer Status

If the printer is Bi-directional, and is not busy, the *Configuration* button will be available, allowing you to change the configuration of the attached printer. This button will be grayed out if the printer does not support this option, or if the printer is busy printing.

If available, clicking the *Configuration* button in the *Printer Status* window will reveal a window like the following example.



	Environment Variable	Variable Value	Read Only
11	MANUALFEED	OFF	No
12	MPTRAY	FIRST	Yes
13	ORIENTATION	PORTRAIT	No
14	PAGEPROTECT	AUTO	No
15	PAPER	A4	No
16	PERSONALITY	AUTO	No
17	RESOLUTION	600	No
18	RET	MEDIUM	No
19	TIMEOUT	300	No

Figure 4: Printer Configuration

Environment Variable	This list of printer configuration variables will vary from printer to printer.
Variable Value	Displays the current setting. To change the Variable Value (if *Read Only* is NO) double click the line you wish to change, then enter or select a new value.
Read Only	Indicates whether or not the environment variable is adjustable.

Configuration Icons

To configure a IOPRINT+ Print Server, click on it once with your mouse to highlight it. The program will ask for password confirmation. If no password is assigned, click **OK**. Otherwise, enter the password and click **OK**.

Once a IOPRINT+ Print Server is selected, the following Icons (or the equivalent menu selection) can be used to select configuration options.

Buttons

Most screens contain the following buttons.

- **Set to Default** – Replace the on-screen values with the default values. These are NOT saved until you click the *Save to Device* button.

  To set ALL device values to the default, use the menu option *InitDevice - Restore Factory Default*.

- **Save to Device** – Save the values shown on screen to the selected IOPRINT+ Print Server. You should then use the *InitDevice* menu option to *Reset* the device to ensure the changes take effect. If you have changed the name or IP Address of the IOPRINT+ Print Server, you should also *Refresh* the device list.

- **Help** – Display context sensitive help.

- **Cancel** – Discard any changes not already saved, and close the Window.

NetWare

Menu equivalent: ***Configuration NetWare***

Select this icon to configure the IOPRINT+ Print Server for use with Novell NetWare servers. You need to be logged into the NetWare servers with ADMIN rights.

The screens you will see, and the operations which can be performed, depend on whether or not you have ***Novell NetWare Client 32*** installed.

- If ***Novell NetWare Client 32*** is installed on your PC, BiAdmin allows you to configure both the IOPRINT+ Print Server and the NetWare server from within BiAdmin.

- If this ***Novell NetWare Client 32*** is NOT installed, you can configure only the IOPRINT+ Print Server itself, not the NetWare server.

For more information, select the appropriate link below:

- Configuration with NetWare Client 32 installed

- Configuration WITHOUT NetWare Client 32

TCP/IP Configuration

Menu equivalent: ***Configuration - TCP/IP***

Selecting this icon will allows configuration for both TCP/IP and Internet Printing. The top section of the screen is shown below.

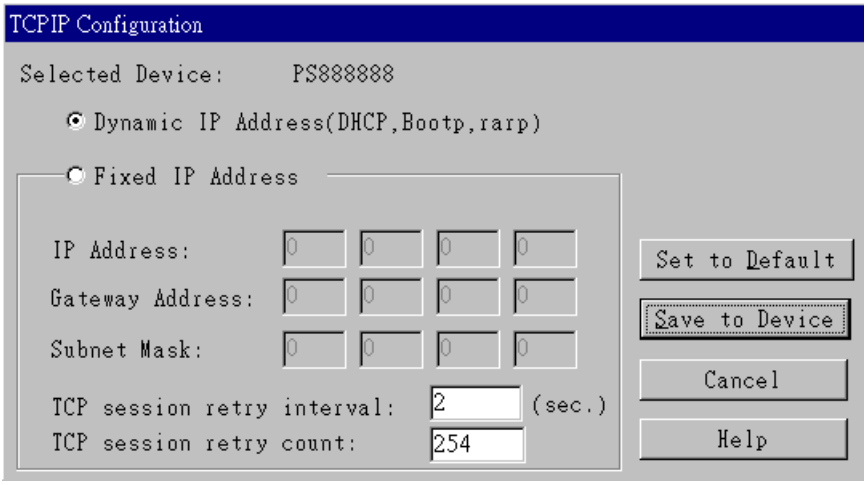


Figure 5: TCP/IP Configuration

Enter TCP/IP Configuration data on the top half of this screen. For details of the required data, see the documents for Unix - TCP/IP or Windows NT Server (TCP/IP).

If the IOPRINT+ Print Server supports Internet Printing, the bottom section of the screen allows configuration of the Internet Printing function. An example screen is shown below.

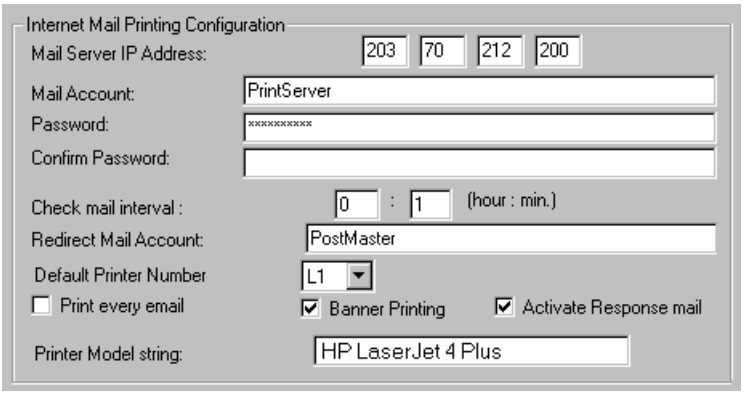

Internet Mail Printing Configuration
Mail Server IP Address: 203 70 212 200
Mail Account: PrintServer
Password: **********
Confirm Password:
Check mail interval : 0 : 1 (hour : min.)
Redirect Mail Account: PostMaster
Default Printer Number L1
Print every email
Banner Printing
Activate Response mail
Printer Model string: HP LaserJet 4 Plus

Figure 6: Internet Printing Configuration

For details of the required data, refer to the Internet Printing document.

AppleTalk Configuration

Menu equivalent: ***Configuration - AppleTalk***

Selecting this icon will cause the following screen to appear.

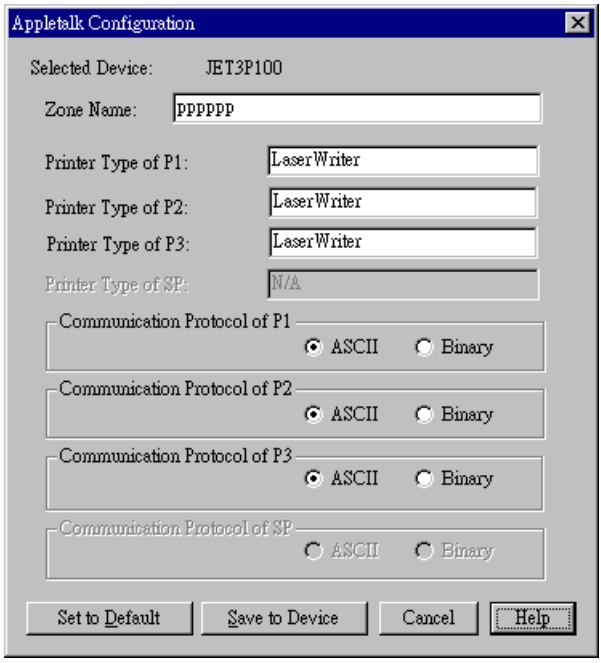


Figure 7: AppleTalk Configuration

Refer to the AppleTalk document for details of these settings.

NetBEUI Configuration

Menu equivalent: ***Configuration - NetBEUI***

Selecting this icon leads to the following screen.

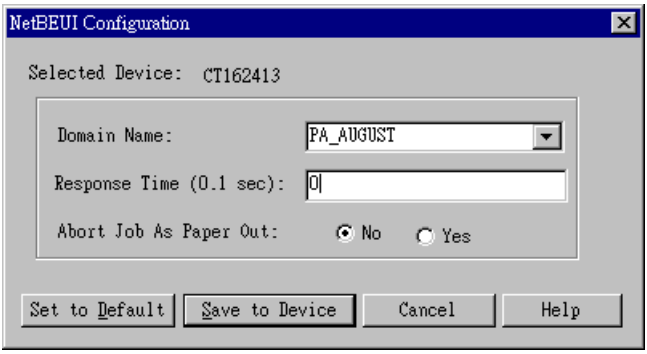


Figure 8: NetBEUI Configuration

NetBEUI Settings

Domain name	Enter the designated work group to be serviced by the IOPRINT+ Print Server. Using only UPPER CASE is recommended, because the IOPRINT+ Print Server is not case sensitive, and will ignore case.
Response Time	Sets how fast jobs are sent to the printer. The default value of zero (0) delay should be increased only if your printer cannot cope with no delay.
Abort Job As Paper Out	YES will terminate the current print job when a printing error is encountered. NO (default) will try to continue but may cause print errors. If errors occur, try setting this value to YES.

Normally, there should be no need to adjust these settings.

SNMP Configuration

Menu equivalent: ***Configuration - SNMP***

After clicking this icon, the screen will look like the following.

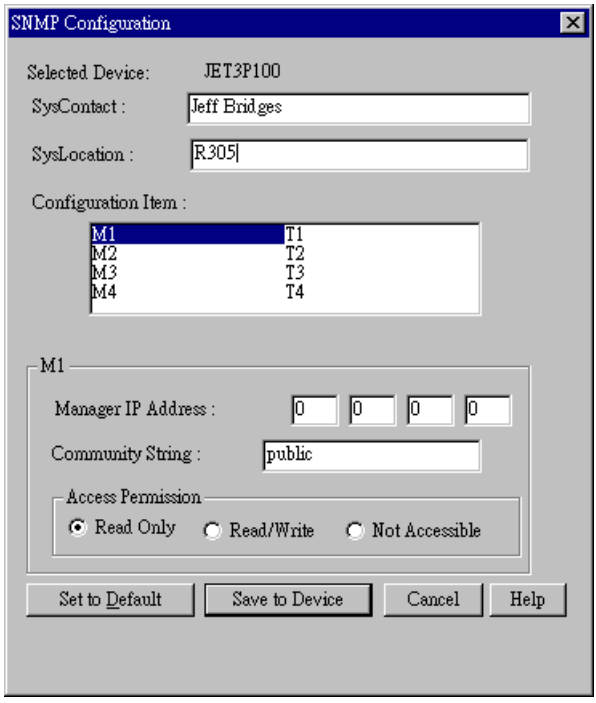


Figure 9: SNMP Configuration

Note that the bottom part of the screen will change if a ***Trap*** (T1..T4) is selected. In that case, the bottom part of the screen will look like the following.

Figure 10: SNMP Trap Configuration

Refer the SNMP Support document for details of these settings.

Logical Port Configuration

Menu equivalent: ***Configuration - Logical Port***

Logical port (printers) can be used in the NetWare and Unix environments. Refer to the appropriate document for details of these settings:

- NetWare – Logical Printers
- Unix – Logical Printers

Physical Port Configuration

Menu equivalent: ***Configuration Physical Port***

After selecting the port, you will see the following screen.

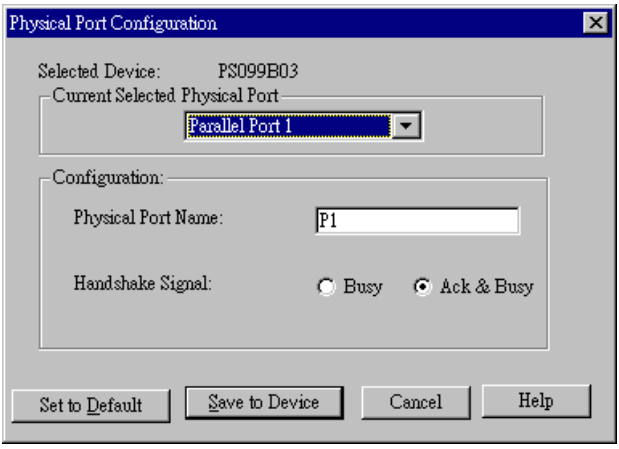


Figure 11: Physical Port

Current Selected Physical Port	Select the desired port.
Physical Port Name	If desired, enter a name for this port.
Handshake Signal	Select *Busy* or *Ack & Busy*. (Acknowledge and Busy). The default is *Ack & Busy*. This should only be changed if advised to do so by technical support staff.

Serial Port Configuration

Menu equivalent: ***Configuration - Serial Port***

Check your serial printer to see what settings should be used. Selecting this option will show the following screen.

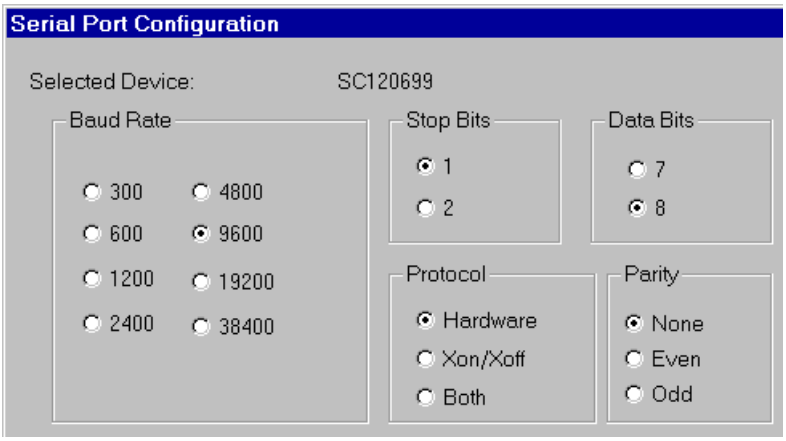


Figure 12: Serial Port Configuration

Action Icons

The following icons are located on the right side of the screen.

Upgrade

Menu Equivalent:

This option allows you to upgrade the firmware for the selected IOPRINT+ Print Server. Before using this option, you need to obtain the file for the firmware upgrade. Selecting this option will reveal the following screen.

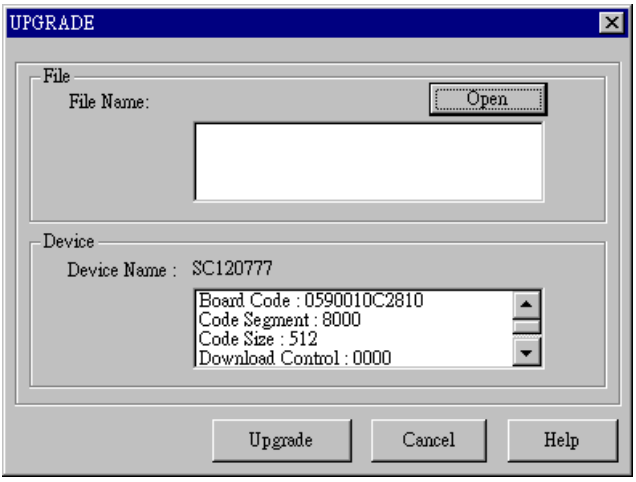


Figure 13: Upgrade Screen

Click the *Open* button to browse for firmware upgrade files. These files have a .BIN extension.

Click *Upgrade* to send the file in the upper window to the device shown in the lower window. The file will be checked to see if it the correct type for the selected device. Follow the instructions on screen to complete the upgrade. You will be required to *Reset* (reboot) the IOPRINT+ Print Server after completing the download.

Refresh

Menu Equivalent: **None**

Select this icon to update the IOPRINT+ Print Server device listing after changing the name or IP Address.

Exit

Menu Equivalent: ***Help*** ***Exit***

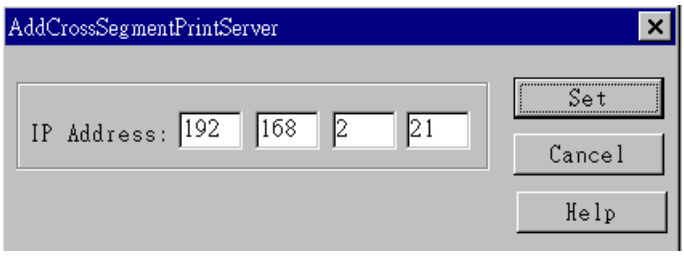
Exit the BiAdmin program. This does not save any changes you have made; you must *Save* on each screen.

Menu Options

Status Menu

Device Info	Same as *Device* button. Display all the configuration and status information about the selected IOPRINT+ Print Server. The data is presented in a scrolling, read-only window.
Port	Same as *Port Status* buttons. Select the desired port, to view a screen similar to Figure 3: Printer Status.

InitDevice Menu

Attach Remote	This is used to connect to a IOPRINT+ Print Server device on another LAN segment. You will see the screen below.  ***Figure 14: Attach Remote*** Enter the IP address of the remote device.
Connected Protocol	This option allows you to designate which LAN protocol will be used for communication between the selected device and this application. You should select ONE protocol only.
Find	Use this option to locate a IOPRINT+ Print Server on the LAN. Simply enter the *Default Name* (as shown on a sticker on the base, in the form SCxxxxxx) for the IOPRINT+ Print Server you wish to locate.
Reset Device	This will cause the device to reboot. This should be done after making any configuration changes, or if the device stops responding after some problem.
Restore Factory Default	This will restore ALL device values to their factory defaults. To restore only the current screen, use the *Set to Default* button on the screen.

Set IP Address	For TCP/IP networks only: • If a IOPRINT+ Print Server does not appear on the main screen, use this option to set a Device IP Address, Gateway IP Address, and Network Mask to the IOPRINT+ Print Server. • This should only be necessary if your LAN is using ONLY the TCP/IP protocol. In other cases, BiAdmin will use IPX/SPX to locate the IOPRINT+ Print Server even if it doesn't have a valid IP Address. • To locate the IOPRINT+ Print Server, enter the default device name. This name is shown on a sticker on the base of the device, in the form SCxxxxxx (SC followed by 6 digits). • Enter the required IP Address, Network Mask, and Gateway IP Address. • After saving the data to the device, refresh the listing. The IOPRINT+ Print Server should then appear in the device list on the main screen.

Configuration Menu

System

Selecting this option will reveal the following screen.

Figure 15: Configuration Screen

Device Name	Enter a new name for the selected IOPRINT+ Print Server if you wish.
Group Name	If a group name is entered, the group name is shown on the left side of the screen, and clicking the group name will list only devices in that group.
Protocols	Any protocols not used on your LAN may be disabled.

By default, all protocols are enabled. This allows operation in any environment, but degrades performance.

The ***Configuration Menu*** also contains selections for each of the following. These have the same effect as the corresponding Icon.

- NetWare
- TCP/IP
- AppleTalk
- NetBEUI
- Logical Port
- SNMP

Diagnostics menu

Print Test Page	Use this option to print a test sheet from the selected IOPRINT+ Print Server port. The test print out will include status information.

Control Menu

Abort Mail Print Job	This option allows you to cancel a print job which has been received though the Internet Printing feature, and is currently printing. This can be used to terminate a print job which is not printing correctly.